

• Phase II

Actual location of caller within margin for error

## Virginia History



- \*1998 House Bill 1331 establishes the Wireless Fund and creates the first Board.
- ◆1998 House Joint Resolution 215 directed the Crime Commission to study E 9-1-1.
- ♦ 1999 Budget amendment directs 9 localities to begin taking wireless 9-1-1 calls.
- ♦ 2000 Senate Bill 148 restructures program.

## Progress to Date



- Approximately 25 localities have implemented Phase I
- The Board has provided over \$10 million to the PSAPs in FY00 and FY01 with an additional \$8 million already approved for FY02
- Approximately \$3 million has been provided to the wireless providers.
- ◆The Board is now focusing on Phase II.

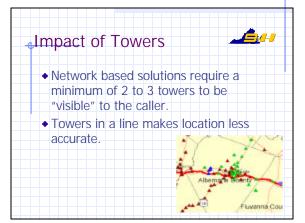
## Phase II Technology



- Handset based solution
  - GPS
- Network based solution
  - Time Distance of Arrival
  - Angle of Arrival
  - Signal Pattern Matching
- Hybrid solution

## Phase II Accuracy • Handset Based Solution • 50 meters / 67% of the calls • 150 meters / 95% of the calls • Network Based Solution • 100 meters / 67% of the calls • 300 meters / 95% of the calls

# Phase II Timeline Announce Technology by November 9, 2000 Handset based Begin selling by October 2001 (regardless of request). Selling 25% of new by December 31, 2001. Selling 50% of new by June 30, 2002. Selling 100% of new by June 30, 2002. If Ill penetration (95%) by December 31, 2005. Network based 50% of area in 6 months and 100% within 18 months.



## Impact of Towers



- Access to 9-1-1 relies on wireless telephone coverage.
- Wireless telephone coverage relies on cell sites
- There is still a large part of Virginia without coverage.

Questions